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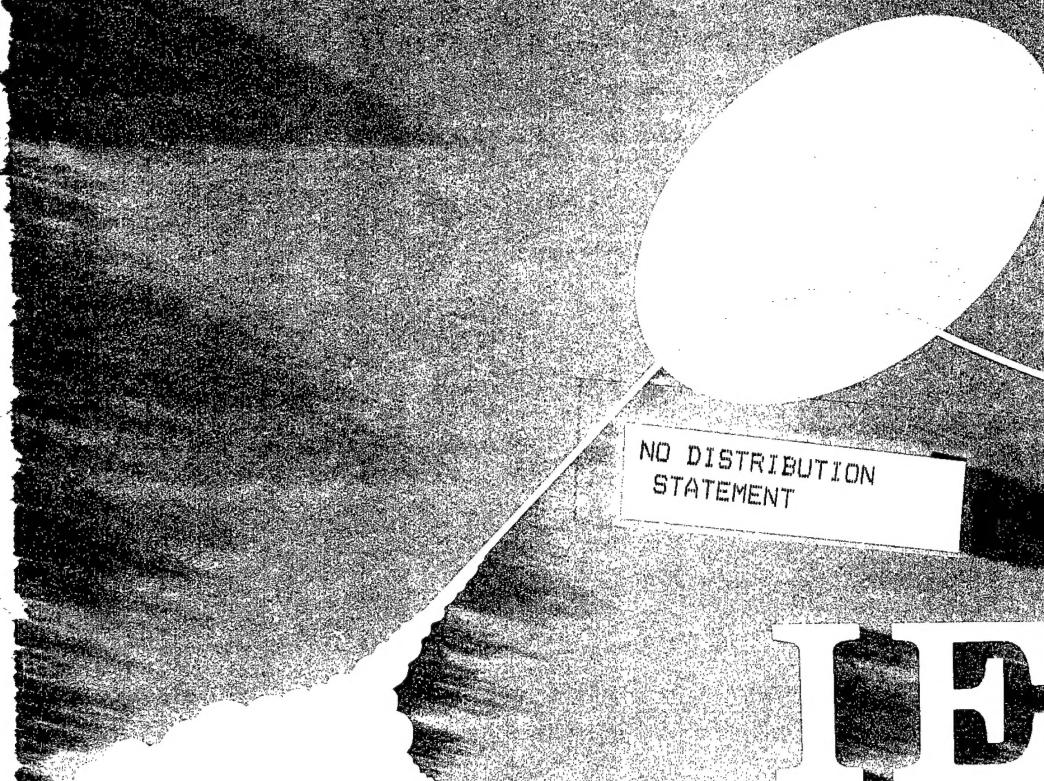
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FINAL SOFTWARE REPORT

DATA ITEM NO. A005

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INTEGRATED ELECTRONIC WARFARE SYSTEM ADVANCED DEVELOPMENT MODEL (ADM)

180987-
PREPARED FOR:
NAVAL AIR DEVELOPMENT CENTER
WARRINGTON, PENNSYLVANIA
CONTRACT N62269-75-C-0070

RAYTHEON
ELECTROMAGNETIC
SYSTEMS DIVISION

1 OCTOBER 1977

UNCLASSIFIED

**FINAL SOFTWARE REPORT
DATA ITEM A005**

**INTEGRATED ELECTRONIC WARFARE SYSTEM (IEWS)
ADVANCED DEVELOPMENT MODEL (ADM)**

Contract No. N62269-75-C-0070

Prepared for:

**Naval Air Development Center
Warminster, Pennsylvania**

Prepared by:

**RAYTHEON COMPANY
Electromagnetic Systems Division
6380 Hollister Avenue
Goleta, California 93017**

1 OCTOBER 1977

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IEWS FINAL SOFTWARE REPORT

The IIEWS software documentation is listed in Table 1. Copies of the referenced documents are contained under separate cover in Appendices, 1 through 35, corresponding to items 1 through 35 in Table 1. The paper tape (PT) and floppy disc (FD) code were delivered with the IIEWS equipment (Contract Item 0001). The magnetic tape code is currently on file at Raytheon Electromagnetic Systems Division.

TABLE 1. IEWS (ADM) SOFTWARE DOCUMENTATION

<u>Description</u>	<u>Document No.</u>	<u>Source Code</u>	<u>Object Code*</u>	<u>Latest Listing Date</u>
1. Functional Requirement Spec (FRS)	53959-JK-0700	N/A	N/A	N/A
2. Computer Program Perf. Spec (CPPS)	081290529	N/A	N/A	N/A
3. Computer Program Operators Manual (CPOM)	53959-DB-0762	N/A	N/A	N/A
4. Computer Program Design Spec (CPDS)	53959-GT-0750	N/A	N/A	N/A
5. Common Data Base Spec	53959-GT-0751	N/A	N/A	N/A
6. System Controller Exec. Design Spec	53959-GT-0756			
Resource Mgmt. (RM) Exec	MT:332, File 4	FD: TLC 3 File 5 & 6	7/22/77 (patches)	
Classification Processor (CP) Exec.	MT:332, File 3	PT: ROMEX 3 FD: CPLEX BB	7/22/77	
Auxiliary Processor (AP) Exec.	MT:332, File 6	PT: ECF G. BB FD: TLC 3 File 5&6	7/22/77	
7. System Mgmt 2	5395-GT-0757	MT:332, File 4	PT: ROMEX '33 FD: TLC 3, File 5&6	7/22/77
8. RMP Display & Control Module	53959-GT-0753	MT:356, File 16	PT: DCDR, BB; FD: TLC 3, File 5&6	5/27/77 (patches)
9. RMP Resource Mgmt Module	53959-GT-0752	MT:356, File 16	PT: RMEXTS. BB FD: TLC 3, File 5 & 6	5/25/77 (patches)
10. Sorter Message Processing	53959-GT-0755	MT 332, File 7	PT: ARFG. BB FD: TLC 3, File 5&6	7/22/77 (patches)
11. Analysis Return, CP Processor	53959-GT-0761	MT 332, File 7	PT: ARFG. BB FD: TLC3 File 5&6	7/22/77 (patches)
12. Aux. Bus Interface (ABI) Mgmt.	53959-GT-0754	MT 332, File 7	PT: ARFG. BB FD: TLC 3, File 5&6	7/22/77 (patches)
13. Emitter Classification Processing	53959-GT-0760	MT 332, File 7	PT: ECFG. BB FD: TLC 3, File 5 & 6	7/22/77

14. Emitter Library Generation	53959-GT-0770	N/A	N/A
15. Signal Classification Requirements	DCC#760844	N/A	N/A
16. SC Data Extraction	53959-GT-0759	MT332, File 5	PT: DE,BB FD: TLC 3, File 5 & 6
17. NEWS Data Transfer (XFER)	53959-TC-0763	MT332, File 5	PT: XFER. BB
18. Techniques Gen S/W Des. Spec Rev 0 (8/5/76), Rev. A (12/2/76), and Rev. B (12/20/76)	53959-HM-0412	MT949, Source Tape 3	FD: No. 1, Files 7 8 & 9
19. RP-16 Linking Loader	53959-TC-0773	MT 320, File 2	PT
20. RP-16 Relocatable Object Text	53959-TC-0774	MT 320, File 2	PT
21. Data Recording with STE	53959-DB-0771	FD: 1191 XXX	File: ∅ DEL.RS ∅ DECOM
		1002	1190 ∅ DE 2.RS ∅ COMMON.
		RS	1190 none
		none	2 DE 2. BR 3 COMMON. BR 3 SYSTEM. BR
22. Data Reduction with STE	53959-RB-0775	none	FD:XXX File: 2
23. Signal Sorter Computer Program Pef Spec (SS CPPS)	CG-983645-1	CG-983645-1	
24. Signal Sorter Flow Charts	CG-983645-2	CG-983645-2	
25. Signal Sorter Common Data Base	53959-TC-0765	53959-TC-0765	
26. Signal Sorter (SS) Supervisor Design Spec & Flow Diagrams	CG-983645-2	MT: 285, File 12	FD: TLC 3, File 2 (with patches)
27. SS New Emitter Start Unit (NESU) & Flow Charts	CG-983645-4	CG-983645-4	PT: Supv. BB Part I (2/16/77) Supv. BB Part II (2/16/77) Supv. BR (2/14/77) MT: 285, File 1
		MT: 285, File 13	FD: TLC 3, File 2 (with patches) PT: NESU. BB (2/16/77) NESU. BR (2/14/77) MT: 285, File 2

28. SS BIT Software Spec (including flowcharts and listing) 53959-GT-0772 (See ref. document)

29. SC Program Test Plan 53959-GR-0758

30. System Controller -Sorter Interface 53959-JK-1002

31. Auxiliary Bus Interface 53959-JK-1003

32. IFMR - TG Interface 53959-DB-1101

33. IFMR - SC Interface 53959-DB-1102

34. Test Procedure for System Controller 53959-GR-0301

36. IEWS Loader None MT 356, File 21 PT: SCLT 1. EQ FD: N/A 7/23/77

37. SC Simulator for SS Tests (IEWS SIM) None MT: 285, File 7 PT: IEWS SIM. BB (3/1/77) 9/1/76

38. RP160S for CP (Supports IEWS SIM) None None PT: RP160S (11/1/76)
RP160S (SC) (3/4/77)
FD:TLC 3, File 3

39. Special Test Equipment (STE) Operating System None MT 332, File 8 PT: RP 160S. BQ; FD: 0S 4/26/66

*MT: Magnetic Tape
FD: Floppy Disc
PT: Paper Tape